

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Marshall Wayne BERN, David GOLDBERG

Application No.: New U.S. Patent Application

Filed: January 16, 2002

Docket No.: 105886

For: **METHOD AND APPARATUS FOR IMPROVING IMAGE APPEARANCE**

INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. Relevance of the English language references are discussed in the present specification.

Respectfully submitted,

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 105886		APPLICATION NO. New U.S. Patent Application	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Marshall Wayne BERN, David GOLDBERG			
				FILING DATE January 16, 2002			

10/046196
01/16/02

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
		09/749,690 (Atty Dckt: 105887)	12/28/00	Goldberg et al.		
		5,303,313	04/12/1994	Mark et al.		
		5,835,638	11/10/1998	Rucklidge et al.		

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
		Digipaper, http://www3.cs.cornell.edu/digipaper/
		John D. Hobby et al., "Degraded Character Image Restoration", Proc. 5 th Annual Symp. On Document Analysis and Image Retrieval, pps. 177-189, 1996
		John D. Hobby et al., "Enhancing Degraded Document Images via Bitmap Clustering and Averaging", ICDAR '97: Fourt Int. Conference on Document Analysis and Recognition, 1997

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.